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	<u>Flat section stringers with and including connection plates, bolted to steel</u>				
A	220 x 12mm x 20.7kg/m flat bars as stringers as per architect's drawings	t	0.67		
	<b><u>PAINTING</u></b>				
	<u>One coat corrosion resistant primer and two coats compatible gloss enamel tinted (colour: Black Mica)</u>				
B	On structural steel columns, beams, etc	m <sup>2</sup>	55		
	<b><u>TIMBER HANDRAIL</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<u>Wrought Hardwood</u>				
C	50mm diameter Eucalyptus wood continuous handrails with and including 17 x 7mm deep routed groove in bottom of handrail for LED light fixture (LED light and electrical connection elsewhere) and fixed to and including stainless steel hollow section brackets, brackets bolted (including bolts) to glass balustrade (glass balustrade elsewhere) as per architect's drawings	m	31		
	<b><u>FRAMELESS GLASS AND STAINLESS STEEL BALUSTRADES</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<u>Construction</u>				
	Shopfronts, lobby screens, etc shall be of toughened glass "frameless" construction with natural anodised aluminium top and bottom rails, with patch fittings and with glass edges at butt joints polished and sealed with silicon sealant				
	<u>Fixing</u>				
	Top rails of shopfronts, lobby screens, etc and doors are fixed to underside of suspended ceilings below concrete slabs. Prices are to include for necessary extension brackets. Distances between concrete slabs and suspended ceilings are stated in the descriptions				
	<b>Carried to Collection</b>			R	
	Bill No. 2				
	Glass Staircase				
	ISAM Atrium Staircase				
	2206Q046-B Iziko SA Museum (ISAM)				



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<u>Aluminium doors, windows, etc</u>				
Glazing shall comply with SAGGA regulations. Glass shall be type laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings				
<u>Frameless 12mm thick toughened glass (no reinforcing rib) fixed to and including stainless steel balustrade supports, balustrade supports bolted to steel stringers (steel stringers elsewhere) all as per architects details</u>				
A	Horizontal balustrades 1,000mm high	m	9	
B	Raking balustrades 1,000mm high	m	18	
<u>Frameless 12mm thick toughened glass (no reinforcing rib) fixed with and including stainless steel clamps to glass balustrade, all as per architects details</u>				
C	Horizontal balustrades 200mm high - to existing	m	132	
D	Raking balustrades 200mm high - to new stairs	m	26	
<b><u>GLAZED STEEL TREADS AND LANDINGS</u></b>				
<u>39mm Annealed Multilam glass with non slip top layer and acid etched bottom layer as per architect's details</u>				
E	320 x 1,500mm treads laid in tread support bracket (support bracket elsewhere) around all edges with epoxy grout including sealing beads as per architect's details	No	27	
F	1,448 x 1,500mm landing in landing support bracket (support bracket elsewhere) around all edges with epoxy grout including sealing beads as per architect's details	No	1	
G	1,500 x 1,500mm landing in landing support bracket (support bracket elsewhere) around all edges with epoxy grout including sealing beads as per architect's details	No	1	
H	1,290 x 1,500mm landing in landing support bracket (support bracket elsewhere) around all edges with epoxy grout including sealing beads as per architect's details	No	1	
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Bill No. 2 Glass Staircase <b>ISAM Atrium Staircase</b> <b>2206Q046-B Iziko SA Museum (ISAM)</b>				



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<u>Steel minor work for treads and landings</u>			
A	320 x 1,500mm Rectangular treads support brackets of 50 x 50 x 8mm angle sections with welded 340mm long 50 x 50 x 8mm thick angles as end plates, end plates twice holed for bolts with 1,560 x 100 x 3mm thick plate twice bolted as per architect's details	No	27
B	1,448 x 1,500mm Landing support brackets of 50 x 50 x 8mm angle sections with three 50 x 50 x 8mm angle section supports of 1,526mm long as per architect's details	No	1
C	1,500 x 1,500mm Landing support brackets of 50 x 50 x 8mm angle sections with two 50 x 50 x 8mm angle section supports of 1,526mm long as per architects details	No	1
D	1,290 x 1,500mm Landing support brackets of 50 x 50 x 8mm angle sections with three 50 x 50 x 8mm angle section supports of 1,526mm long as per architect's details	No	1
<u>The following steel minor work in stair track beam</u>			
Note: Tenderers are to refer to the drawings in "1.2. Atrium Stair Architectural Drawings" for details pertaining to the stair lift track beam.			
E	700mm long track beam supports from 50 x 50 x 5mm square hollow section, cut bent and welded to form a 90 degree angle, welded to the track beam support and 50 x 50 x 8mm L-section tread supports measured elsewhere, as per architect's details	No	9
F	50 x 50 x 5mm square hollow sections welded to the chair lift track beam and a 150 x 100 x 8mm end plate, bolted through the glass landing with 4 x M10 bolts to a 240 x 100 x 8mm plate, as per architect's details	No	3
<b><u>BUDGETARY ALLOWANCES</u></b>			
G	Provide the sum of R130,000.00 (One Hundred and Thirty Thousand) for builders work in connection with staircase installation	Item	130,000.00
H	Provide the sum of R100,000.00 (One Hundred Thousand) for temporary builders work	Item	100,000.00
J	Provide the sum of R100,000.00 (One Hundred Thousand) for builders work in connection with chair lift	Item	100,000.00
<b>Carried to Collection</b>			R
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A	Provide the sum of R70,000.00 (Seventy Thousand) for fixing the staircase to the existing structure	Item		70,000.00
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Bill No. 2

Glass Staircase

**COLLECTION**

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**Amount**

**Carried to Summary**

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Bill No. 2

Glass Staircase

**ISAM Atrium Staircase**

**2206Q046-B Iziko SA Museum (ISAM)**



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**SUMMARY**

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2	Glass Staircase	7	
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